

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of: Hiroyuki KUNIMARU et al.

Appl. No.: New Group:

Filed: February 6, 2002 Examiner:

For: DSL TERMINAL-EXCHANGE DEVICE CONNECTING
SYSTEM AND METHOD

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

February 6, 2002

Sir:

The following preliminary amendments and remarks are respectfully submitted in connection with the above-identified application.

IN THE ABSTRACT OF THE DISCLOSURE:

Please replace the Abstract of the Disclosure with the rewritten Abstract of the Disclosure attached on a separate sheet attached hereto.

REMARKS

Entry of the above amendments is earnestly solicited. An early and favorable first action on the merits is earnestly requested.

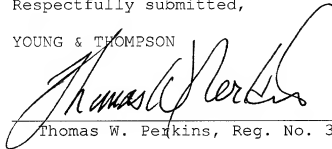
Should there be any matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned at the telephone number listed below.

Attached hereto is a marked-up version of the changes made to the abstract by the current amendment. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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TWP/ma
Attachments

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE ABSTRACT OF THE DISCLOSURE:

The Abstract of the Disclosure has been amended as follows:

ABSTRACT OF THE DISCLOSURE

A DSL 5 is connected between an exchange device 3 and an IAD1 to which DSL subscriber terminals 2-1 through 2-n are connected, and the exchange device 3 is equipped with a VMG 4 for terminating an ATM cell multiplexed over the DSL 5, a voice packet transmitted as multiplexed over the DSL 5 is directly terminated at the exchange device 3, which in turn converts the voice packet into a packet according to an existing exchange device interface 8, so that DSL subscribers can be accommodated in the exchange device 3 directly and also exchange device software for operating the exchange device 3 can control call processing without knowing about a device under the control of a subscriber control unit, as a result, user burdens can be mitigated.

~~—The invention may be embodied in other specific forms without departing from the spirit or essential characteristic thereof. The present embodiments are therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description and all changes which come within the~~

~~meaning and rage of equivalency of the claims are therefore
intended to be embraced therein.~~

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ABSTRACT OF THE DISCLOSURE

A DSL 5 is connected between an exchange device 3 and an IAD1 to which DSL subscriber terminals 2-1 through 2-n are connected, and the exchange device 3 is equipped with a VMG 4 for terminating an ATM cell multiplexed over the DSL 5, a voice packet transmitted as multiplexed over the DSL 5 is directly terminated at the exchange device 3, which in turn converts the voice packet into a packet according to an existing exchange device interface 8, so that DSL subscribers can be accommodated in the exchange device 3 directly and also exchange device software for operating the exchange device 3 can control call processing without knowing about a device under the control of a subscriber control unit, as a result, user burdens can be mitigated.